Most Current Water Quality Standards - Waterbody Shapefiles

Metadata also available as

Metadata:

Identification_Information:

Citation:

Citation_Information:

Originator: US EPA

Publication_Date: 20011231

Title: Most Current Water Quality Standards - Waterbody Shapefiles

Description:

Abstract:

State Water Quality Standards' Designated Uses for river segments, lakes, and estuaries. 2000 Water Quality Standards coded onto the National Hydrography Dataset (NHD) Waterbody Reaches (region.rch) to create Waterbody Shapefiles.

Purpose:

To be used to identify the spatial extent of waters listed under State Water Quality Standards. These waters can be linked to EPA's Water Quality Standards Database for query and display.

Supplemental_Information:

Procedures Used: State Water Quality Agencies supplied EPA's Office of Water lists of waters with Designated Uses under State Water Quality Standards. These lists contained text which identified the locations of individual waters on their list. Many states also submitted GIS coverages and or maps that outlined the spatial extent of their listed waters. These base materials were used by EPA to code the spatial extent onto NHD Waterbody Reaches (region.rch) to create Waterbody

Shapefiles. Using the EPA's NHD-Reach Indexing Tool (NHD-RIT), waterbody shapefiles were created and the reaches were identified with the Designated Uses supplied by the states. These waterbody shapefiles were then sent to each state for review and comment. The format of the reviewed data was state dependent. Formats consisted of hardcopy maps, shapefiles or coverages with events.

Revisions: Initial indexing was done and maps sent back to the state for review. In many cases, modifications were noted by the State and then corrections were made by RTI.

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 2001

Time_of_Day: Unknown

Currentness_Reference: Current as of December 2001.

Status:

Progress: In work

Maintenance_and_Update_Frequency: Every 6 months (June and December).

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -180

East_Bounding_Coordinate: -60

North_Bounding_Coordinate: 80

South_Bounding_Coordinate: 0

Keywords:

Theme:

Theme_Keyword_Thesaurus: None

Theme_Keyword: Water Quality Standards, designated uses, reach indexing

Place:

Place_Keyword_Thesaurus: None

Place_Keyword: US, National

Temporal:

Temporal_Keyword_Thesaurus: None

Temporal_Keyword: Most current, 2000, 2001, 2002

Access_Constraints: Password protected until review is complete.

Use_Constraints:

This website is designed for state review of DRAFT Water Quality Standards (WQS) spatial data. Research Triangle Institute (RTI), under contract with EPA, georeferenced (or indexed) states' Water Quality Standards to the National Hydrography Dataset (NHD). EPA would like each state to have the opportunity to review the indexing work. Reviewers are asked to assess the accuracy of WQS reach indexing (georeferencing) efforts. More specifically, reviewers are asked to evaluate whether designated uses are assigned to the appropriate reaches and to assess the accuracy of the locational information.

Point_of_Contact:
Contact_Information:
Contact_Person_Primary:
Contact_Person: Bill Kramer
Contact_Organization: US EPA Headquarters
Contact_Address:
Address_Type: Mailing address.
Address:
1200 Pennsylvania Avenue, NW Room 5233T, Mail Code 4305T
EPA West
City: Washington
State_or_Province: D.C.
Postal_Code: 20460
Country: United States of America
Contact_Voice_Telephone:
202-260-5824 (until April 10, 2002) 202-566-0385 (beginning April 15, 2002)
Contact_Electronic_Mail_Address: kramer.bill@epa.gov
Security_Information:
Security_Classification_System: None
Security_Classification: UNCLASSIFIED
Security_Handling_Description: None
Native_Data_Set_Environment:
Windows NT, Windows 2000, ArcView 3.2 (used in conjunction with the Reach Indexing Tool (RIT) and the National Hydrography Dataset (NHD), and the Water Quality Standards Database (WQSDB), which contains designated use information as it was assigned by the States.

Data_Quality_Information:
Attribute_Accuracy:
Attribute_Accuracy_Report: See Logical Consistency Report: Chain-node topology present
Logical_Consistency_Report: Chain-node topology present
Completeness_Report: State review underway
Positional_Accuracy:
Horizontal_Positional_Accuracy:
Horizontal_Positional_Accuracy_Report:
Statements of horizontal positional accuracy are based on accuracy statements made for USGS topographic quadrangle maps. These maps were compiled to meet National Map Accuracy Standards. For horizontal accuracy, this standard is met if at least 90 percent of points tested are within

0.02 inch (at map scale) of their true positions. Additional offsets to positions may have been introduced where there are many features to improve the legibility of map symbols. In addition, the digitizing of maps is estimated to contain a horizontal positional error of less than or equal to 0.003-inch standard error (at map scale) in the two component directions relative to the source maps. Visual comparison between the map graphic (including digital scans of the graphic) and plots or digital displays of points, lines, and areas is used to assess the positional accuracy of digital data.

For more information, see the National Hydrography Dataset Concepts and Contents document (February 2000) available at <http://nhd.usgs.gov/chapter1/index.html>.

Vertical_Positional_Accuracy:

Vertical_Positional_Accuracy_Report:

Statements of vertical positional accuracy for elevation of water surfaces are based on accuracy statements made for USGS topographic quadrangle maps. These maps were compiled to meet National Map Accuracy Standards. For vertical accuracy, this standard is met if at least 90 percent of well-defined points tested are within one-half contour interval of the correct value. Elevations of water surface printed on the published map meet this standard; the contour intervals of the maps vary. These elevations were transcribed into the digital data; the accuracy of this transcription was checked by visual comparison between the data and the map.

For more information, see the National Hydrography Dataset Concepts and Contents document (February 2000) available at <http://nhd.usgs.gov/chapter1/index.html>.

Lineage:

Process_Step:

Process_Description:

Each state sent RTI a marked up map or existing GIS coverage denoting the location and extent of each waterbody. Using the EPA's NHD Reach Indexing Tool, shapefiles were created by conflating the each State's data to NHD. Event identifiers were populated with State-provided designated use waterbody codes.

Process_Date: 20011231

Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Geographic:

Latitude_Resolution: 1
Longitude_Resolution: 1
Geographic_Coordinate_Units: Decimal Degrees
Geodetic_Model:
Horizontal_Datum_Name: NAD83
Ellipsoid_Name: GRS 1980
Semi-major_Axis: 6378137 meters
Denominator_of_Flattening_Ratio: 298.257222101

Entity_and_Attribute_Information:
Detailed_Description:
Entity_Type:
Entity_Type_Label: Waterbody themes
Entity_Type_Definition:
Each waterbody theme applies to section(s) of the National Hydrography Dataset (NHD), which is a comprehensive set of digital spatial data that contains information about surface water features such as lakes, ponds, streams, rivers, springs and wells. Within the NHD, surface water features are combined to form "reaches," which provide the framework for linking water-related data to the NHD surface water drainage network. These linkages enable the analysis and display of these water-related data in upstream and downstream order.
Entity_Type_Definition_Source: EPA's NHD Reach Indexing Tool
Attribute:
Attribute_Label: Event_id
Attribute_Definition:
Unique ID for an event created based on date and time when the event was created, and a sequential number to provide uniqueness for events created at the same time.
Attribute_Definition_Source: System created number
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum: 2000010100000100001
Range_Domain_Maximum: 9999123124000099999
Attribute:
Attribute_Label: Duu_id
Attribute_Definition:
Unique identifier of the digital update unit in the NHD database.
Attribute_Definition_Source: NHD
Attribute_Domain_Values:
Range_Domain:

Range_Domain_Minimum: 0000000001
Range_Domain_Maximum: 9999999999

Attribute:
Attribute_Label: Rch_code
Attribute_Definition:
Numeric code that uniquely identifies a reach in NHD, consisting of two parts: the first eight digits are the hydrologic unit code of the cataloging unit in which the reach is located; the last six digits are a sequentially, arbitrarily-assigned number.
Attribute_Definition_Source: NHD
Attribute_Domain_Values:
Codeset_Domain:
Codeset_Name: NHD Reach codes
Codeset_Source: USGS NHD

Attribute:
Attribute_Label: Rch_date
Attribute_Definition:
Date that the reach code (Rch_code) was assigned, displayed as YYYYMMDD.
Attribute_Definition_Source: NHD
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum: 19970101
Range_Domain_Maximum: 99991231

Attribute:
Attribute_Label: Attr_prg
Attribute_Definition: Indicates the attribute type or program being indexed.
Attribute_Definition_Source: Unknown
Attribute_Domain_Values:
Codeset_Domain:
Codeset_Name: Alphanumeric
Codeset_Source: ASCII

Attribute:
Attribute_Label: Attr_val
Attribute_Definition:
Value associated with the attribute program in the field Attr_prg.

Attribute_Definition_Source: Unknown
Attribute_Domain_Values:
Codeset_Domain:
Codeset_Name: Alphanumeric
Codeset_Source: ASCII

Attribute:

Attribute_Label: Entity_id
Attribute_Definition:
Identifier used to aggregate reaches into homogenous units. It is also used to link the event table to external data sources.

Attribute_Definition_Source: Varies
Attribute_Domain_Values:
Codeset_Domain:
Codeset_Name: Alphanumeric
Codeset_Source: ASCII

Attribute:
Attribute_Label: State
Attribute_Definition: State abbreviation according to the FIPS standard.
Attribute_Definition_Source: User input
Attribute_Domain_Values:
Codeset_Domain:
Codeset_Name: Federal Information Processing Standard
Codeset_Source: Two digit FIPS state code (character).

Attribute:
Attribute_Label: Meta_id
Attribute_Definition: Link to the metadata table
Attribute_Definition_Source: Unknown
Attribute_Domain_Values:
Codeset_Domain:
Codeset_Name: Alphanumeric
Codeset_Source: ASCII

Overview_Description:
Entity_and_Attribute_Overview:
Waterbody themes georeferenced to the National Hydrography Dataset (NHD).
Entity_and_Attribute_Detail_Citation:
The NHD Reach Indexing Tool User's Guide- June 2001.
<http://www.epa.gov/waters/georef/UserGuide.pdf>.

Distribution_Information:
Distributor:
Contact_Information:
Contact_Person_Primary:
Contact_Person: Bill Kramer
Contact_Organization: US EPA Headquarters
Contact_Address:
Address_Type: Mailing

Address:
1200 Pennsylvania Avenue, NW Room 5233T, Mail Code 4305T
EPA West
City: Washington
State_or_Province: D.C.
Postal_Code: 20460
Country: U.S.A.
Contact_Voice_Telephone:
202-260-5824 (until April 10, 2002) 202-566-0385 (beginning April 15, 2002)
Contact_Electronic_Mail_Address: kramer.bill@epa.gov
Distribution_Liability: None

Metadata_Reference_Information:
Metadata_Date: 20020321
Metadata_Contact:
Contact_Information:
Contact_Person_Primary:
Contact_Person: Bill Kramer
Contact_Organization: US EPA Headquarters
Contact_Address:
Address_Type: Mailing
Address:
1200 Pennsylvania Avenue, NW Room 5233T, Mail Code 4305T
EPA West
City: Washington
State_or_Province: D.C.
Postal_Code: 20460
Country: U.S.A.
Contact_Voice_Telephone:
202-260-5824 (until April 10, 2002) 202-566-0385 (beginning April 15, 2002)
Contact_Electronic_Mail_Address: kramer.bill@epa.gov

Metadata_Standard_Name:
Content Standards for Digital Geospatial Metadata, Federal Geographic Data Committee.
Metadata_Standard_Version: FGDC-STD-001-1998
Metadata_Time_Convention: Local TIME
Metadata_Security_Information:
Metadata_Security_Classification_System: None
Metadata_Security_Classification: Unclassified

Metadata_Security_Handling_Description: None

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